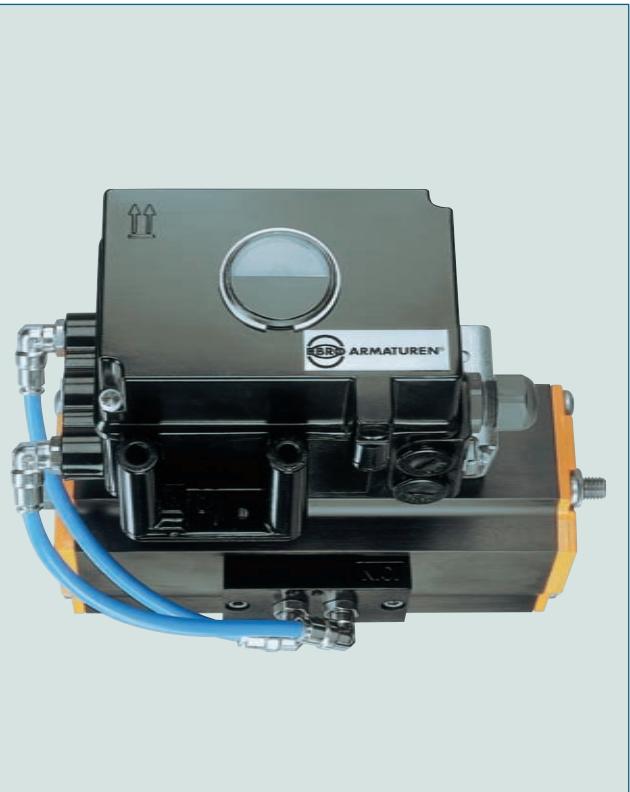


## ANALOG POSITIONER EP 100



The analog Positioner EP 100 with analog input 4 ... 20 mA is designed to operate pneumatic valve actuators. It offers an easy adjustment by means of switches and potentiometers. The modular structure of this positioner series enables conversion from an analog to a "digital" or "intelligent" positioner by exchanging the electronics.

### TECHNICAL FEATURES

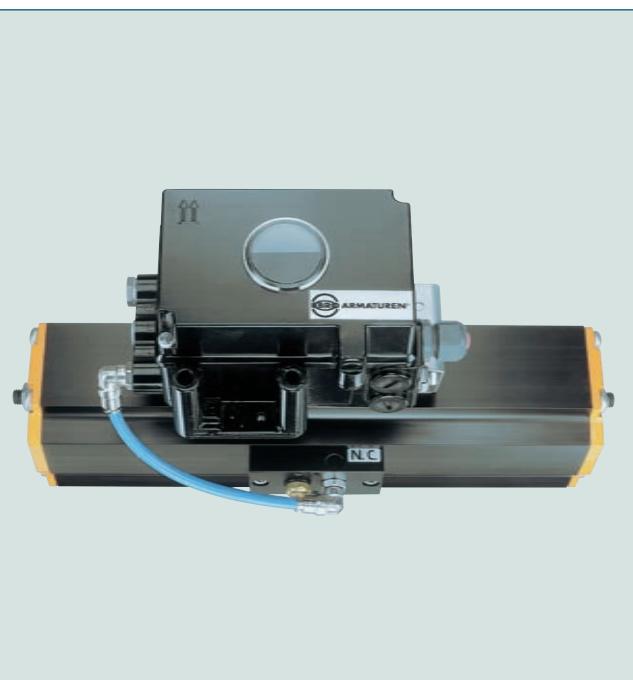
- Configuration by means of switches and potentiometers
- Load 300 Ohm
- Low air consumption
- Stroke 8 to 120 mm (0.3 to 4.7 inch)
- Angle range up to 95 °
- Supply air pressure up to 6 bar (90 psig)
- Single or double acting
- Mechanical travel indicator
- Reverse polarity protection
- Attachment to stroke actuators directly or according to IEC 534 part 6 (NAMUR)
- Attachment to rotary actuators according to VDI/VDE 3845
- Protection class IP 65 and NEMA 4X

### EXPLOSION PROTECTION:

- EEx ia IIC according to CENELEC or "Intrinsic safety" according to FM and CSA
- Integrated inductive limit switches, independent of device electronics

### ACCESSORIES e.g.:

- Gauge attachment for supply air and outputs
- Booster relay



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**ANALOG POSITIONER EP 100**

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## INPUT

Two-wire system	
Reverse polarity protection.....	feature
Signal range.....	4 - 20 mA
Operating range.....	3 - 21,5 mA
Voltage.....	DC 6 - 42 V
Load.....	300 Ω 6 V at 20 mA

## SUPPLY

Supply air pressure.....	1,4 - 6 bar (20–90 psig)
Supply air.....	according to IEC 654-2

## CONFIGURATION

with switches:

Rotation.....	clockwise or counter clockwise
Input signal.....	4 - 20 mA (direct) 20 - 4 mA (inverse)
Split range <sup>1)2)</sup> .....	4 - 12 mA, 12 - 20 mA 20 - 12 mA, 12 - 4 mA

with potentiometers:..... Zero (ZERO)  
Span (S)  
Gain (G)  
Damping

## RESPONSE CHARACTERISTIC

Sensitivity.....	≤ 0,2 % of travel span
Non-linearity.....	≤ ± 0,8 % of travel span
Hysteresis.....	≤ ± 0,5 % of travel span
Temperature effect.....	≤ ± 0,5 %/10 K
Supply air dependence.....	≤ 0,3 %/1 bar (15 psi)
Mechanical vibration	
10 - 60 Hz up to 0,14 mm,	
60 - 500 Hz up to 2g.....	≤ 0,25 % of travel span

## AMBIENT CONDITIONS

Operating conditions	
acc. to IEC 654-1 .....	the device can be operated at a classe Dx location
Ambient temperature .....	-40 ... 80°C (-40 to 176°F)
(devices before rev 0.1 .....	-20 ... 80°C (-4 to 176°F)
Relative humidity .....	100 %
Transport and storage	
Ambient temperature .....	-40 ... 80°C (-40 to 176°F)
Storage conditions according to IEC 60721-3-1: 1K5; 1B1; 1C2; 1S3; 1M2	
Protection class	
according to IEC 529 .....	IP 65 <sup>3)</sup>
according to NEMA .....	Type 4X <sup>3)</sup>

- 1) The digital positioner SRD992 offers enlarged functionality  
2) At maximum rotation angle range of 30 degrees  
(± 15 degrees around center position of feedback lever).  
Split range is not available for actuators with a swivel range > 30 degrees  
3) Under services as directed